

**NON-PROJECT SPECIFIC / NON-TASK SPECIFIC
Fabrication Inspection of Structural Elements**

SCOPE OF WORK

Contract Administration

Staff Bridge, Fabrication Inspection: Denver, CO 80222

Active day-to-day administration and monitoring of this contract will be delegated to:

Fabrication Inspection Project Manager: Denver, CO 80222

General Requirements:

Definitions:

CDOT Resident Engineer - The CDOT employee responsible to the Region Program Engineer for the quality and successful completion of a transportation project. The Resident Engineer authorizes interim and final payments and all changes to Contracts for all Consultants and Contractors.

CDOT Project Engineer - The CDOT employee assigned by the Resident Engineer to be the Chief Engineer's duly authorized representative. The CDOT Project Engineer is in direct charge of the project work and is responsible for the administration and satisfactory completion of the project under contract.

Consultant - The firm or corporation providing personnel under this agreement to perform Inspection services as outlined herein.

Consultant Professional Engineer - the Consultant employee in responsible charge of Consultant services performed as described in this Contract. The Consultant Professional Engineer administering the Consultant contract must be licensed in the State of Colorado.

Inspection Management or Fabricator Inspector - Consultant employee who performs inspection management, fabrication inspection, and other project-related services under the responsible charge of the Consultant Project Engineer, and at the direction of the CDOT Project Engineer.

Contractor - The individual, firm, or corporation contracting with CDOT to construct a transportation project.

Authorization to Proceed

Work shall not commence until the written Notice to Proceed is received by the Consultant. The work shall be completed in the time specified.

Initial Project Meeting,

The consultant personnel and CDOT project personnel shall meet to coordinate and schedule the required work. The Consultant shall complete all work in accordance with the approved schedule.

Work Duration

NPS Contract Work is for a three year period with the option to extend a third year to complete exiting work under contract. Work may be required night and/or day, on weekends, holidays, and/or on a split shift basis. Workweeks may be in excess of or less than the standard 40-hour week.

Routine Billing & Reporting

The Consultant shall provide the following on a routine basis:

- a) Coordination of all contract activities by the Consultant's Project Engineer.
- b) Monthly billing formats, suitable to the CDOT Project Engineer, for all contract activities performed by the consultant's Project Engineer and inspectors.
- c) Periodic reports and billings required by CDOT Procedural Directive 400.2.

Status of Contract

The Consultant shall monitor the status of the contract and advise the CDOT Resident Engineer of any potential need to supplement the contract. Failure to monitor contract status and provide timely notification may result in discontinuation of the Consultant's services.

Project Standards

Inspection Management and Fabrication Inspection shall be in accordance with the Colorado Department of Transportation's Construction Manual, Materials Manual, 2011 Colorado Department of Transportation Standard Specifications for Road and bridge Construction, applicable M&S Standards, and the plans and specifications currently in use when a Fabrication Inspection project is advertised. All activities performed shall be as directed and authorized by the CDOT Project Engineer, and as approved by the CDOT Resident Engineer.

Labor, Vehicle, and Equipment: The Consultant shall furnish their personnel vehicles and

cellular phones to perform the work when approved by the CDOT Resident Engineer. CDOT will NOT furnish any other equipment required to perform the work. The Consultant's work shall be under the direction of, and shall be reviewed by a Professional Engineer registered in the State of Colorado.

The Consultant shall provide all testing equipment necessary to verify the Fabricator's Quality Control and the documentation to indicate whether the fabricated item conforms to the requirements of the contract.

A copy of work experience and/or proof of Licensing shall be provided before work begins to the CDOT Project Engineer. Personnel provided by the Consultant who do not meet the specified requirements, or who fail to perform their work in an acceptable manner shall be removed from the project when determined and directed by the CDOT Project Engineer.

Documentation

Documentation shall conform the CDOT Laboratory Manual of Test Procedures and the 2011 Colorado Department of Transportation Standard Specifications for Road and bridge Construction. The Consultant shall affix the CDOT ink stamp to the item indicating that it has been inspected and that it is approved for installation prior to shipment.

Personnel Qualifications

The Consultant is to fill the role of the CDOT Fabrication Inspector providing Quality Assurance (QA) for structural items fabricated off the project site in a Fabricator's facility. The inspectors performing the work shall possess the following certifications:

For Item 504: ACI grade 1

For Item 509: CWI and ASNT Level II (or higher) in UT, PT, and MT

For Item 512: CWI

For Item 518: CWI

For Item 618: PCI Level II (or higher) and ACI grade 1

The Consultant shall provide a Professional Engineer registered in the State of Colorado who will be in responsible charge of Inspection Management. This Engineer shall certify in writing that all inspection conforms to the shop drawing plans, specifications, and purpose of design. The Consultant Engineering, when performing Inspection Management Services, shall provide verification of Inspector Certification at the start of each project. The Consultant Engineer shall be available to review work, resolve problems and make decisions in a timely manner as requested by CDOT. The CDOT Resident Engineer shall be the final authority regarding acceptance of work not conforming to the plans and specifications. The Consultant Engineer must be experienced and competent in inspection management and fabrication inspection.

Specific Work Description – Consultant Project Engineer

Fabrication Inspection of the followings structural components to be incorporated into CDOT construction projects:

- Item 504, MSE Wall , Blocks and Panel (One visit per Project)
- Item 509, Structural Steel (Pre-Welding Inspection and Pre-Delivery inspection)
- Item 512, Bridge Bearing Device, Type III (Pre-Delivery inspection)
- Item 518, Bridge Expansion Devices, Modular (0-6” and greater) (Pre-Delivery inspection)
- Item 618, Prestressed Concrete Girders and Deck Panels (Pre-Pour Inspection, Pre-Stressing Inspection, and Pre-Delivery inspection)

Submittal of Final Documentation:

Final pay documentation shall be submitted to the CDOT Project Engineer within 20 working days after completion of the Fabrication Inspection work.

A completed CDOT Form # 193 shall be submitted by the Consultant Professional Engineer to the CDOT Project Engineer within prior to shipment of structural components. Failure to submit final documentation as required will result in withholding of Consultant payments.